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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
|--|--|----------------------|---------------------|------------------|--|
| 10/783,245 | 02/20/2004 | Eric Jones | OSTEONICS 3.0-452 | 1363 | |
| | LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK PHILOGENE, PEDRO | | | EXAMINER | |
| KRUMHOLZ | | | | IE, PEDRO | |
| 600 SOUTH AVENUE WEST WESTFIELD, NJ 07090 | | | ART UNIT | PAPER NUMBER | |
| , | | | 3733 | | |
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| SHORTENED STATUTOR | Y PERIOD OF RESPONSE | MAIL DATE | DELIVER | Y MODE | |
| 3 MONTHS 03 | | 03/28/2007 | PAPER | | |

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

| | | Application No. | Applicant(s) | | |
|--|--|--|---|--|--|
| | | 10/783,245 | JONES, ERIC | | |
| Office | Action Summary | Examiner | Art Unit | | |
| | | Pedro Philogene | 3733 | | |
| The MAII Period for Reply | LING DATE of this communication a | | ith the correspondence address | | |
| A SHORTENED WHICHEVER IS - Extensions of time I after SIX (6) MONT - If NO period for rep - Failure to reply with Any reply received | S LONGER, FROM THE MAILING may be available under the provisions of 37 CFR HS from the mailing date of this communication. | DATE OF THIS COMMUNI 1.136(a). In no event, however, may a lod will apply and will expire SIX (6) MON litute, cause the application to become Al | reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133). | | |
| Status | | | | | |
| 1) Responsi | ve to communication(s) filed on <u>08</u> | 3 January 2007. | | | |
| | | | | | |
| · | • | | ters, prosecution as to the merits is | | |
| closed in | accordance with the practice unde | er <i>Ex parte Quayle</i> , 1935 C.C |). 11, 453 O.G. 213. | | |
| Disposition of Cla | ims | | | | |
| 4) Claim(s) | 1-23 is/are pending in the applicati | on. | • | | |
| | above claim(s) is/are witho | | • | | |
| · | is/are allowed. | | | | |
| 6) Claim(s) | 1-23 is/are rejected. | | | | |
| 7) Claim(s) | is/are objected to. | | , | | |
| 8) Claim(s) | are subject to restriction an | d/or election requirement. | | | |
| Application Paper | s | | | | |
| 9)☐ The speci | fication is objected to by the Exam | iner. | · | | |
| 10)☐ The drawi | ng(s) filed on is/are: a) ☐ a | accepted or b) objected to | by the Examiner. | | |
| Applicant ı | may not request that any objection to | the drawing(s) be held in abeya | nce. See 37 CFR 1.85(a). | | |
| Replacem | ent drawing sheet(s) including the cor | rection is required if the drawing | g(s) is objected to. See 37 CFR 1.121(d). | | |
| 11) The oath o | or declaration is objected to by the | Examiner. Note the attache | d Office Action or form PTO-152. | | |
| Priority under 35 l | J.S.C. § 119 | | | | |
| • | dgment is made of a claim for fore | ian priority under 35 U.S.C. | § 119(a)-(d) or (f). | | |
| | ☐ Some * c)☐ None of: | ight priority under do d.o.o. | 3 7 7 5 (2) (3) 5 7 (7) | | |
| · · | rtified copies of the priority docum | ents have been received. | | | |
| | rtified copies of the priority docum | | Application No | | |
| | pies of the certified copies of the p | | | | |
| | plication from the International Bur | | • | | |
| • • | ached detailed Office action for a | • | t received. | | |
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| Attachment(s) | | | | | |
| 1) Notice of Referen | | | Summary (PTO-413) | | |
| | erson's Patent Drawing Review (PTO-948) | | (s)/Mail Date Informal Patent Application | | |
| 3) [X] Information Discler Paper No(s)/Mail | osure Statement(s) (PTO/SB/08) Date <u>10/2/06</u> . | 6) Other: | | | |

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

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Claim Objections

Claims 20-23 are objected to because of the following informalities: It is noted that claim 19 is omitted. However, for purpose of examination only, claim "20" would be –19--; claim "21" would be –20--; claim "22" would be –21--; claim "23" would be –22--. Appropriate correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Steinemann et al. (5,456,723) in view of Cooper et al. (4,948,457)in view of Sonuparlak et al. (5,480,676).

Steinemann et al disclose a method for surface treating of a metal orthopedic prosthesis or prosthetic titanium implant comprising blasting at least the portion for implantation in bone, as set forth in column 5, lines after leaching out any grit on the stem surface with acid; as set forth in 4, lines 1-14; the bone contacting portion having a surface with an average surface roughness Sq of 5-10 um, the surface being substantially free of aluminum and silicon contamination when measure by an EDAX element analysis; as set forth in column 3, lines 1-35.

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It is noted that Steinemann et al did not teach of chilled iron grit, as claimed by applicant. However, in a similar art, Cooper et al evidence the use of a chilled iron grit to prepare the surface of the metal component.

Therefore, given the teaching of Cooper, it would have been obvious to one having ordinary skill in the art at the time the invention was made to use chilled iron grit to blast the surface of the implant.

It is noted that the above combination of references did not teach of an acid treatment that is 20% nitric acid for at least 20 minutes at ambient temperature; as claimed by applicant. However, in a similar art, Sonuparlak et al evidences the use of an acid treatment that is 20% nitric acid for at least 20 minutes at ambient temperature in order to remove a majority of the metallic constituent from the surface of a sample.

Therefore, given the teaching of Sonuparlack et al, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the method of Steinemann/Cooper et al to remove a majority of the metallic constituent from the surface of the metal prosthesis.

As to the blasting with a G07 or G12 and the pressure of 6.5 bar and nozzle between 9 mm to 9.5mm and the blasting time or time between 3-4 minutes with a stand –off distance between 10-15 mm; Cooper discloses, in column 2, lines 62, that conditions and duration of the grit blasting will have to discovered empirically since the optimum process parameters depend on the hardness and size of the grit and speed of the grit particles on impact against the metal component. Therefore, given the teaching

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of Cooper et al, it would have been obvious to one having ordinary skill in the art to arrive at these parameters; as claimed by applicant.

Response to Amendment

Applicant's arguments with respect to claims 1-23 have been considered but are moot in view of the new ground(s) of rejection. After further consideration, a new ground of rejections is made in view of Sonuparlark et al.

Allowable Subject Matter

The indicated allowability of claims 3-5, 12-14 is withdrawn in view of the newly discovered reference(s) to Sonuparlak et al. Rejections based on the newly cited reference(s) above.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

4,874,434 10-1989 Riggs et al.

5,275,696 1-1994 Gaskin et al.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pedro Philogene whose telephone number is (571) 272-4716. The examiner can normally be reached on Monday to Friday 6:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eduardo Robert can be reached on (571) 272 - 4719. The fax phone

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number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Pedro Philogene March 22, 2007 Podes Philipere PEDRO PHILOGENE STORES PRINCIPALITY Page 5